

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121719\  
 Data File : VX014080.D  
 Acq On : 18 Dec 2019 04:10  
 Operator : JC/SP  
 Sample : K6352-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 55-ST-24

Quant Time: Dec 18 07:24:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Dec 13 01:35:34 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.01  | 128  | 81899    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.85  | 114  | 454956   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 396124   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.05   | 65    | 178722   | 30.47    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 101.57% |
| 60) 4-Bromofluorobenzene  | 11.14  | 95    | 173330   | 27.10    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 90.33%  |
| 63) Toluene-d8            | 8.71   | 98    | 536666   | 30.31    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 101.03% |

## Target Compounds

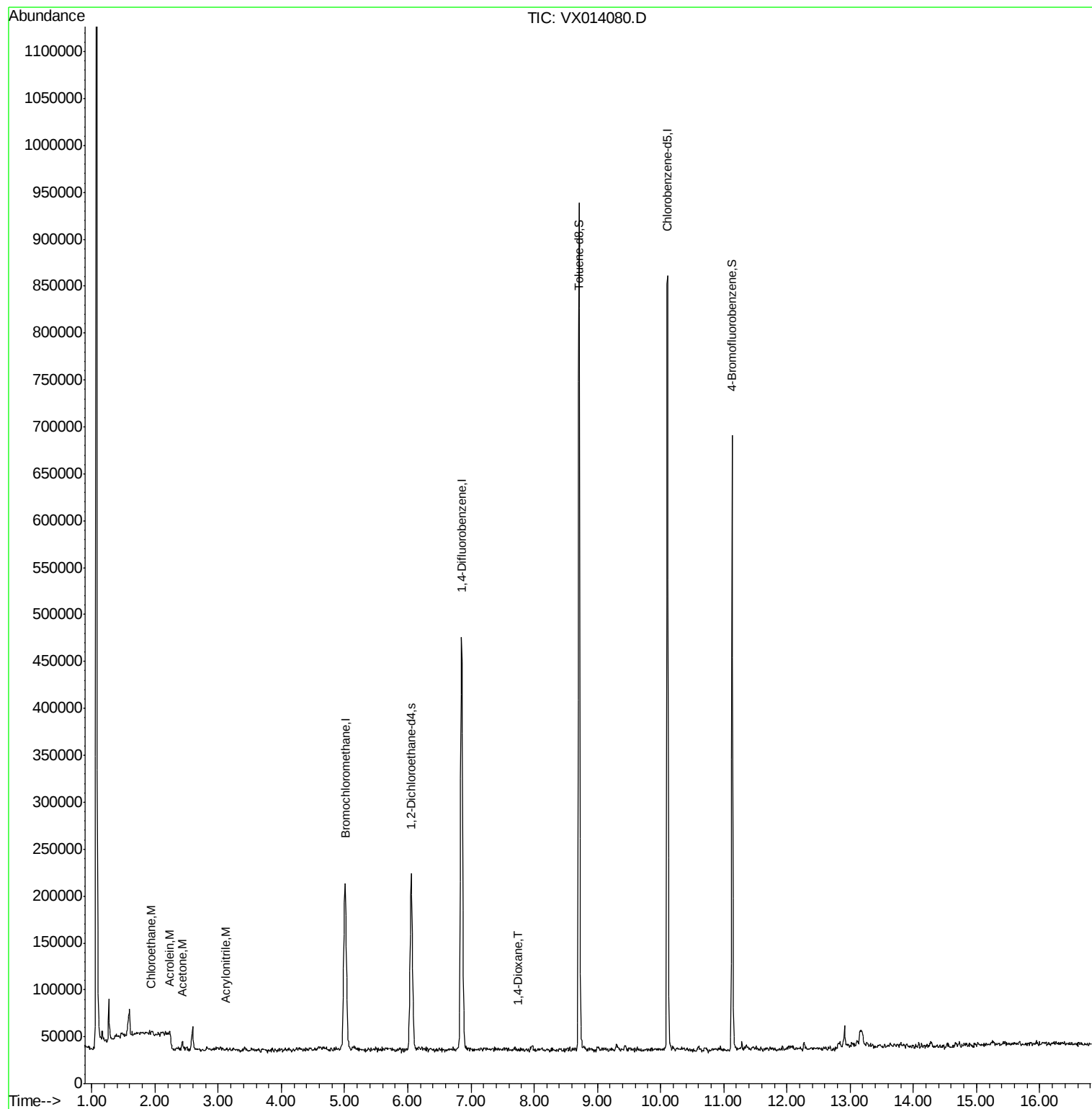
|                   |      |    |      |       | Ovalue |    |
|-------------------|------|----|------|-------|--------|----|
| 6) Chloroethane   | 1.94 | 64 | 756  | 0.205 | ug/l   | 94 |
| 13) Acrolein      | 2.23 | 56 | 274  | 0.318 | ug/l   | 94 |
| 14) Acrylonitrile | 3.12 | 53 | 586  | 0.211 | ug/l # | 20 |
| 15) Acetone       | 2.44 | 58 | 2538 | 3.113 | ug/l   | 85 |
| 45) 1,4-Dioxane   | 7.74 | 88 | 106  | 0.909 | ug/l # | 1  |

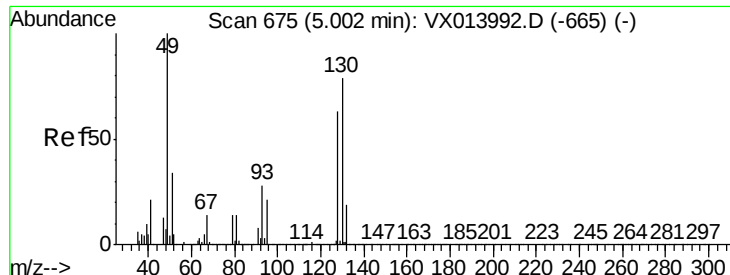
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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55-ST-24

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Dec 13 01:35:34 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014080.D

Acq: 18 Dec 2019 04:10

Instrument :

MSVOA\_X

ClientSampleId :

55-ST-24

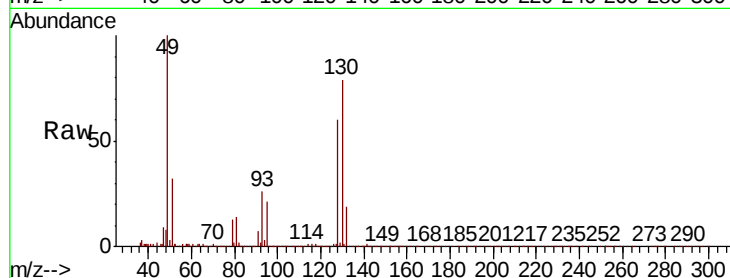
Tot Ion:128 Resp: 81899

Ion Ratio Lower Upper

128 100

49 160.3 0.0 405.0

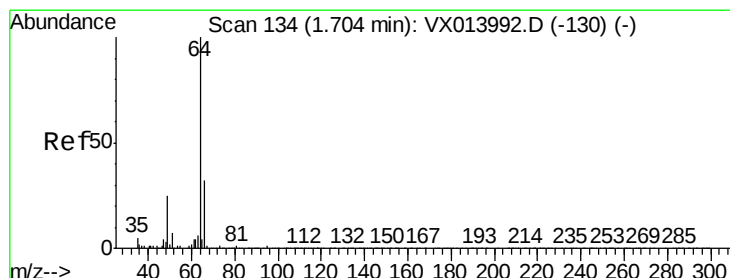
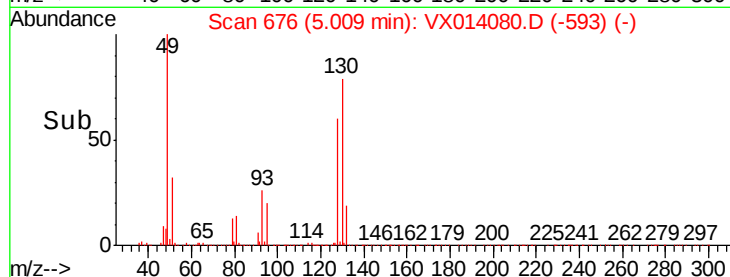
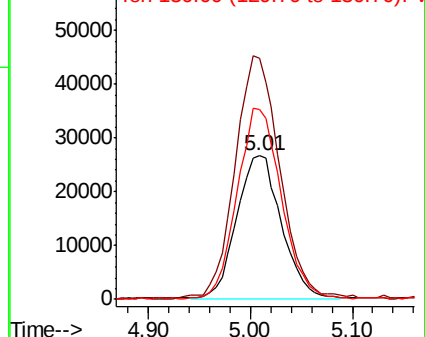
130 130.7 0.0 321.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#6

Chloroethane

Concen: 0.205 ug/l

RT: 1.94 min Scan# 172

Delta R.T. 0.23 min

Lab File: VX014080.D

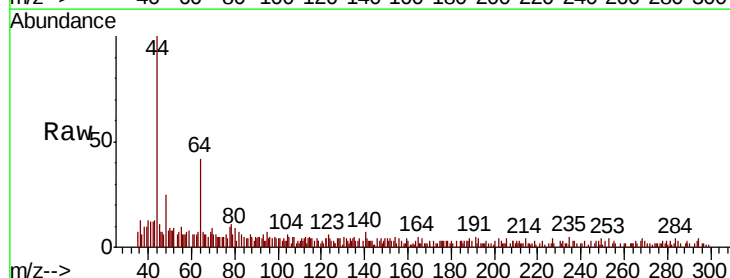
Acq: 18 Dec 2019 04:10

Tgt Ion: 64 Resp: 756

Ion Ratio Lower Upper

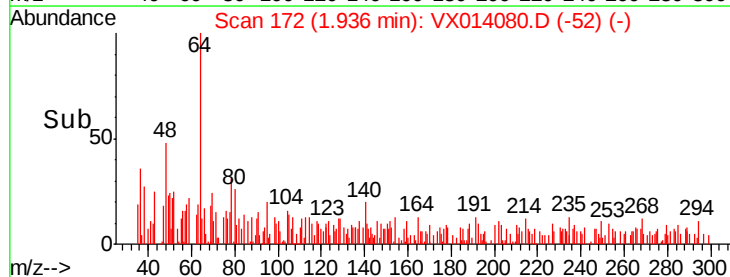
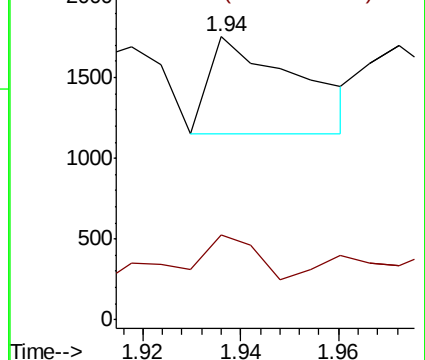
64 100

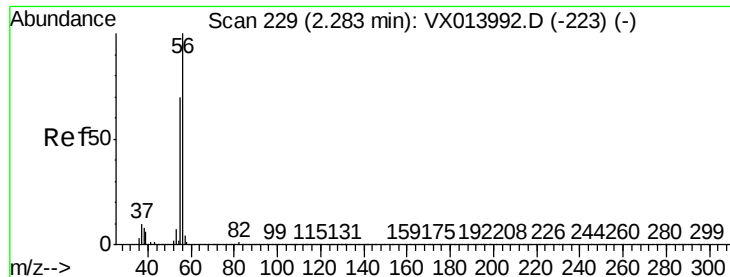
66 35.0 25.2 37.8



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0





#13

Acrolein

Concen: 0.318 ug/l

RT: 2.23 min Scan# 220

Delta R.T. -0.05 min

Lab File: VX014080.D

Acq: 18 Dec 2019 04:10

Instrument :

MSVOA\_X

ClientSampled :

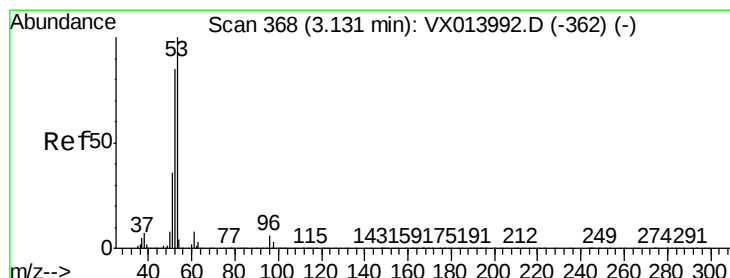
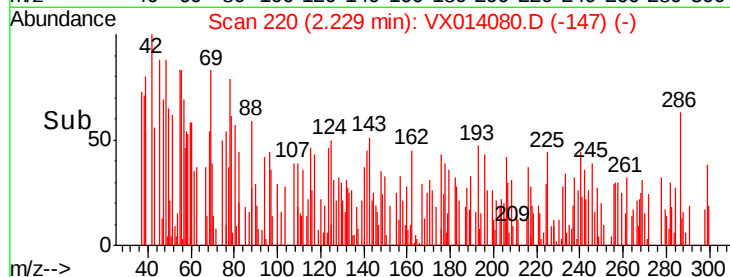
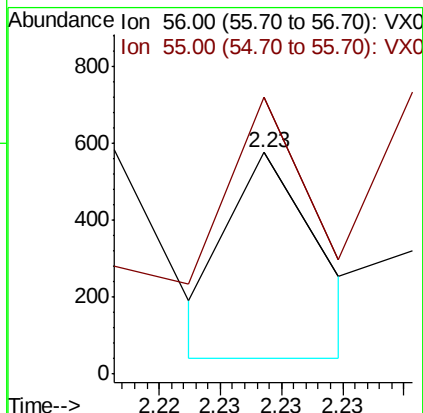
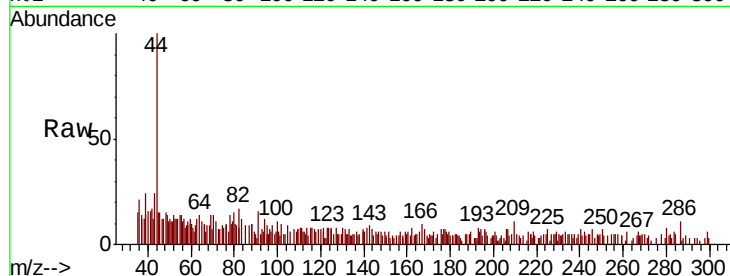
55-ST-24

Tot Ion: 56 Resp: 274

Ion Ratio Lower Upper

56 100

55 73.7 54.9 82.3



#14

Acrylonitrile

Concen: 0.211 ug/l

RT: 3.12 min Scan# 366

Delta R.T. -0.01 min

Lab File: VX014080.D

Acq: 18 Dec 2019 04:10

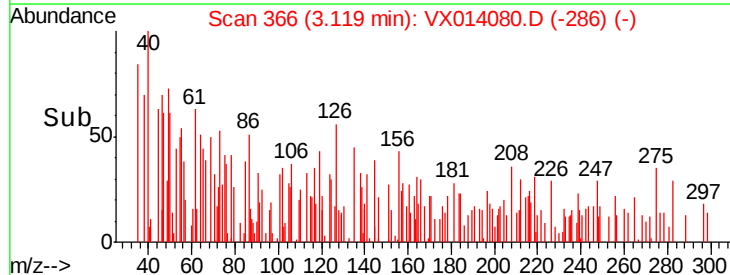
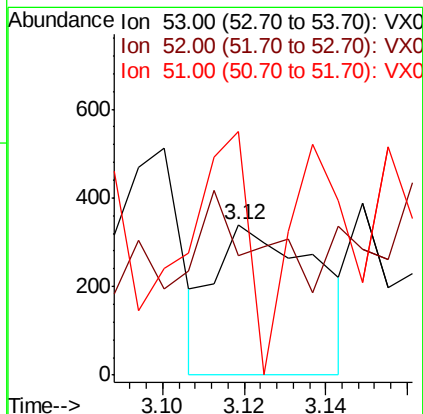
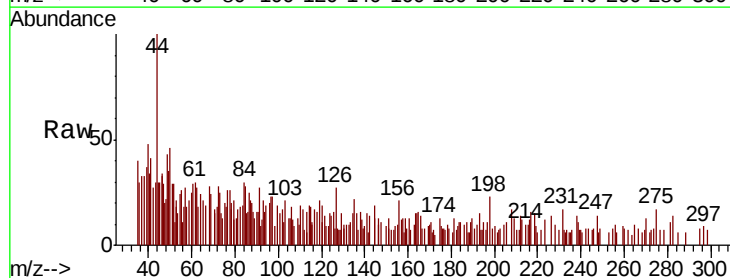
Tgt Ion: 53 Resp: 586

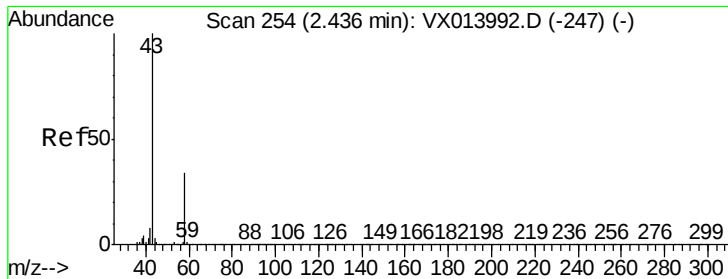
Ion Ratio Lower Upper

53 100

52 20.8 41.5 124.6#

51 97.3 17.8 53.5#





#15

Acetone

Concen: 3.113 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX014080.D

Acq: 18 Dec 2019 04:10

Instrument :

MSVOA\_X

ClientSampleId :

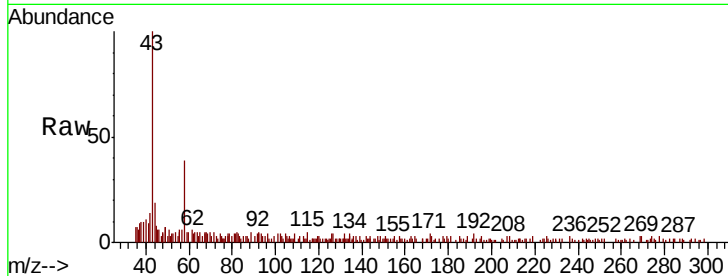
55-ST-24

Tot Ion: 58 Resp: 2538

Ion Ratio Lower Upper

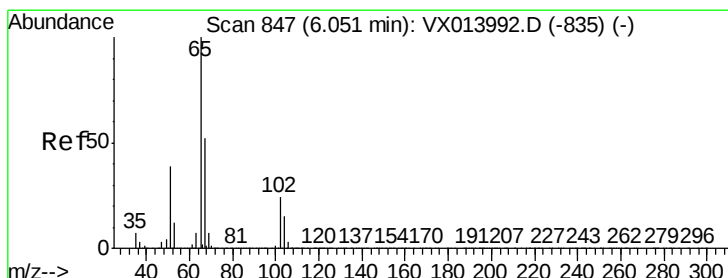
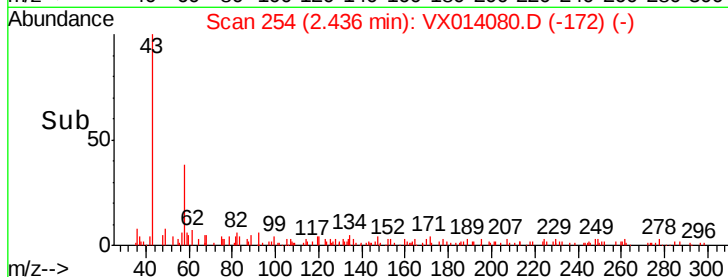
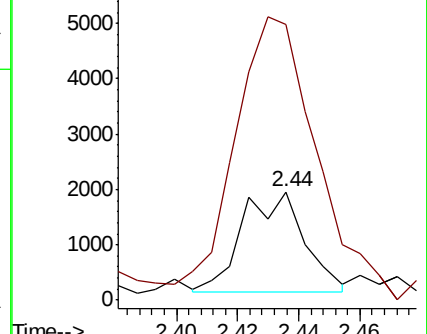
58 100

43 267.2 236.3 354.5



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#27

1,2-Dichloroethane-d4

Concen: 30.471 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014080.D

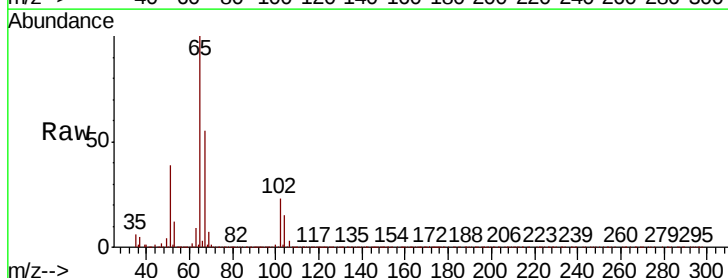
Acq: 18 Dec 2019 04:10

Tgt Ion: 65 Resp: 178722

Ion Ratio Lower Upper

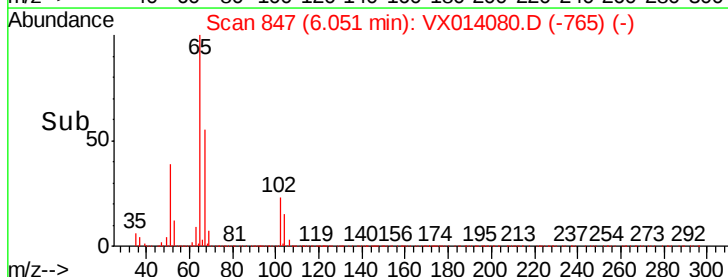
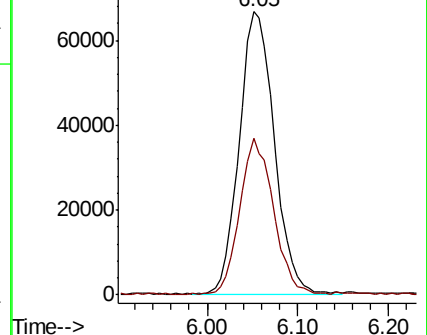
65 100

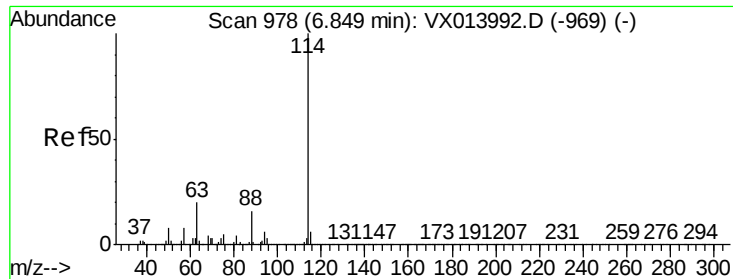
67 52.7 43.1 64.7



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

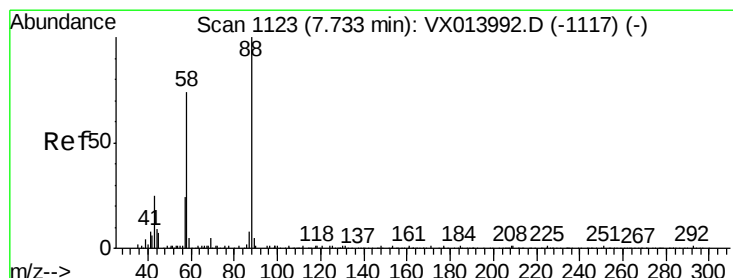
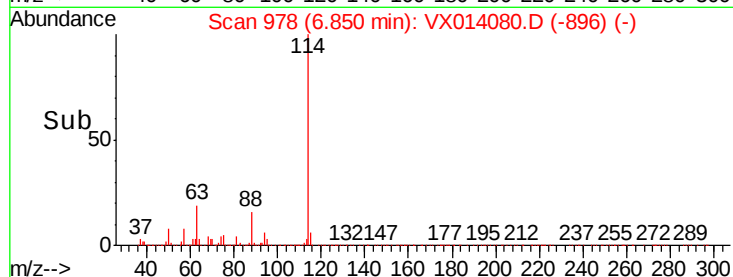
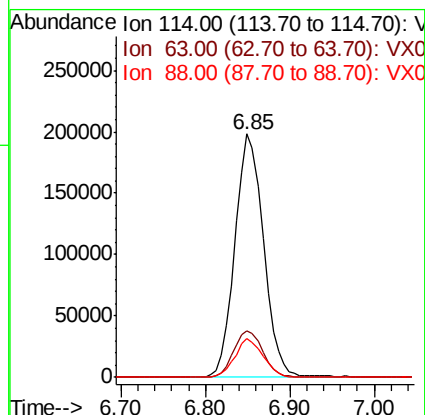
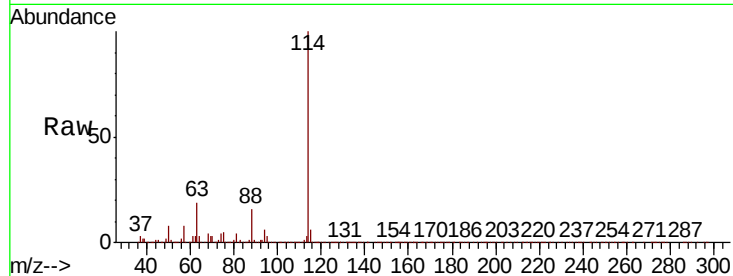




#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: VX014080.D  
 Acq: 18 Dec 2019 04:10

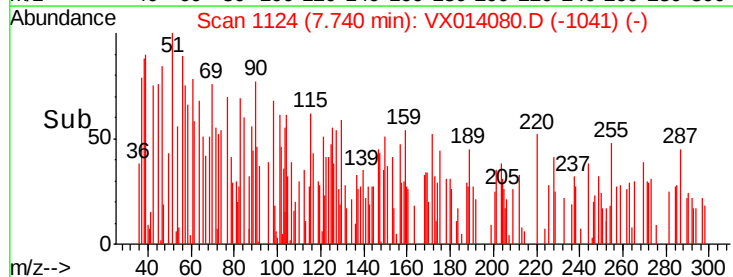
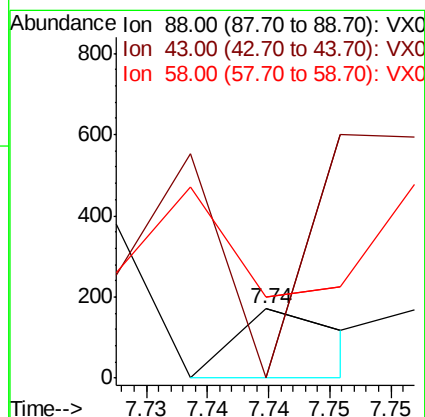
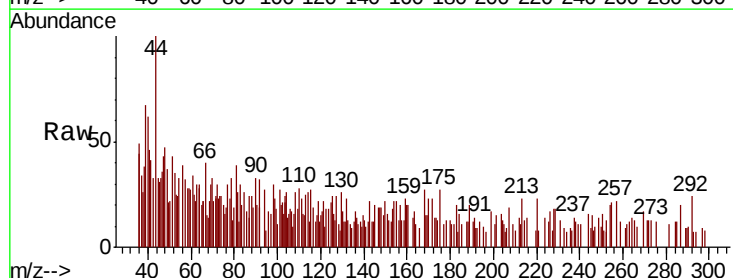
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 55-ST-24

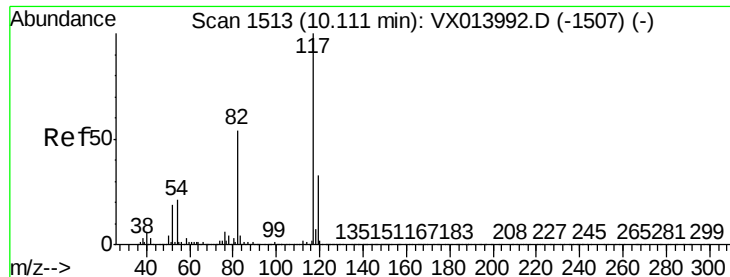
Tot Ion: 114 Resp: 454956  
 Ion Ratio Lower Upper  
 114 100  
 63 19.3 16.1 24.1  
 88 15.6 12.5 18.7



#45  
 1,4-Dioxane  
 Concen: 0.909 ug/l  
 RT: 7.74 min Scan# 1124  
 Delta R.T. 0.01 min  
 Lab File: VX014080.D  
 Acq: 18 Dec 2019 04:10

Tgt Ion: 88 Resp: 106  
 Ion Ratio Lower Upper  
 88 100  
 43 190.6 25.4 38.2#  
 58 245.3 56.5 84.7#

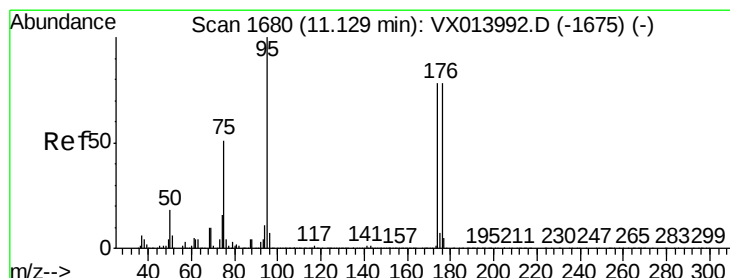
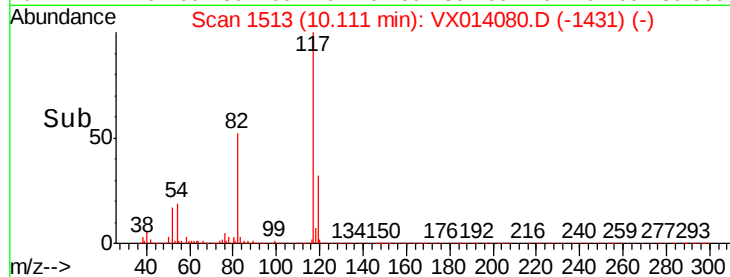
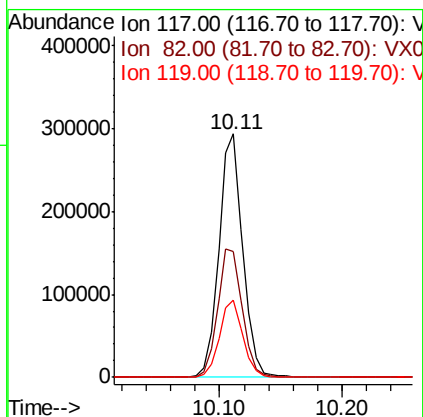
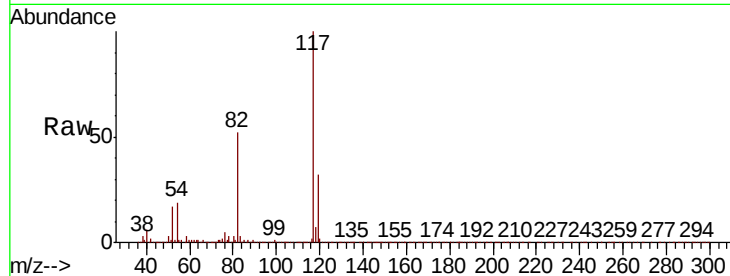




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX014080.D  
Acq: 18 Dec 2019 04:10

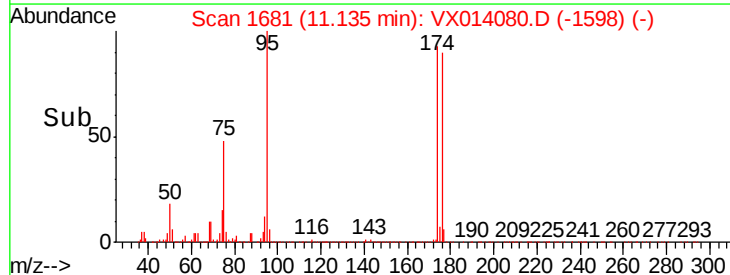
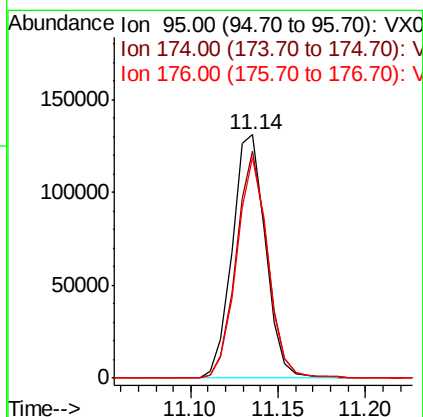
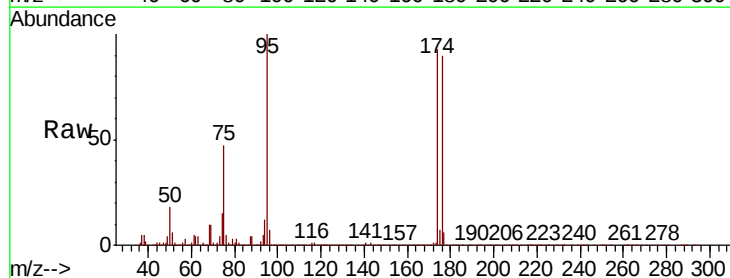
Instrument :  
MSVOA\_X  
ClientSampleId :  
55-ST-24

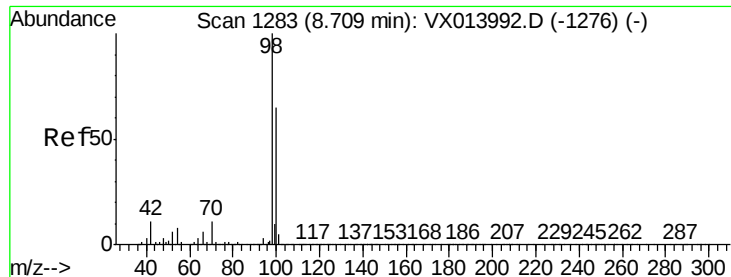
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.7  | 43.8  | 65.6  |
| 119     | 31.1  | 25.8  | 38.6  |



#60  
4-Bromofluorobenzene  
Concen: 27.097 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. 0.01 min  
Lab File: VX014080.D  
Acq: 18 Dec 2019 04:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 88.0  | 70.2  | 105.2 |
| 176     | 85.5  | 68.3  | 102.5 |





#63

Toluene-d8

Concen: 30.309 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014080.D

Acq: 18 Dec 2019 04:10

Instrument :

MSVOA\_X

ClientSampleId :

55-ST-24

Tot Ion: 98 Resp: 536666

Ion Ratio Lower Upper

98 100

100 65.3 52.2 78.2

